

L Number	Hits	Search Text	DB	Time stamp
1	633	428/377.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 11:58
70	3751	electromagnetic adj wave adj shielding or parabolic adj antenna adj reflecting	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 15:10
71	19408	multi-filament or multifilament	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 15:10
72	19611	multi-filament or multifilament or multi adj filament	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 15:10
73	9168	stainless adj steel adj wire	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 15:12
75	0	(electromagnetic adj wave adj shielding or parabolic adj antenna adj reflecting) and ((multi-filament or multifilament or multi adj filament) with (stainless adj steel adj wire))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 15:12
74	25	(multi-filament or multifilament or multi adj filament) with (stainless adj steel adj wire)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 15:12
-	5830	428/222,364,365,373,377,371,379;442/310,316,197,228,229,376;442/310,316,197,228,229,376.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 09:40
-	274863	water-soluble or water adj soluble	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 14:17
-	1209966	fiber or filament or strand	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 14:20
-	10379	(water-soluble or water adj soluble) with (fiber or filament or strand)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 14:26
-	682	(water-soluble or water adj soluble) adj (fiber or filament or strand)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 14:21
-	173000	helical	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 14:21
-	3	((water-soluble or water adj soluble) adj (fiber or filament or strand)) and helical	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 14:21
-	205	((water-soluble or water adj soluble) with (fiber or filament or strand)) with core	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 14:26
-	5	("2803268"   "2848018"   "3013588"   "3224466"   "3399521").PN.	USPAT	2003/01/08 16:32
-	6	3602964.URPN.	USPAT	2003/01/08 16:32

-	56	((water-soluble or water adj soluble) with (fiber or filament or strand)) with core) and (metal or metallic or steel)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 16:49
-	3761970	metal or metallic or steel	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 16:50
-	28121	(metal or metallic or steel) adj (fiber or filament or strand)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 09:41
-	42	428/377.ccls. and ((metal or metallic or steel) adj (fiber or filament or strand))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 16:53
-	19	((water-soluble or water adj soluble) adj (fiber or filament or strand)) and ((metal or metallic or steel) adj (fiber or filament or strand))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 16:53
-	104044	(metal or metallic or steel) adj ((fiber or filament or strand) or wire)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 17:01
-	191756	helical or helically	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 17:02
-	2123	((metal or metallic or steel) adj ((fiber or filament or strand) or wire)) with (helical or helically)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 17:02
-	22	((metal or metallic or steel) adj ((fiber or filament or strand) or wire)) with (helical or helically)) same ((water-soluble or water adj soluble) with (fiber or filament or strand)) or PVA or polyvinyl)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 17:04
-	121326	polyvinyl adj alcohol or PVA or co-nylon or co-polyamide or polyactic adj acid	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 09:45
-	317654	(metal or metallic or steel) with (fiber or filament or strand or wire)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 10:01
-	1245	(polyvinyl adj alcohol or PVA or co-nylon or co-polyamide or polyactic adj acid) same ((metal or metallic or steel) with (fiber or filament or strand or wire))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 09:42
-	10417	(polyvinyl adj alcohol or PVA or co-nylon or co-polyamide or polyactic adj acid) with (fiber or filament or strand or wire)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 09:46
-	924	((metal or metallic or steel) with (fiber or filament or strand or wire)) same ((polyvinyl adj alcohol or PVA or co-nylon or co-polyamide or polyactic adj acid) with (fiber or filament or strand or wire))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 09:46
-	892274	wound or wrapped or helical or helically or spiral or spirally	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 09:48
-	26	((metal or metallic or steel) with (fiber or filament or strand or wire)) same ((polyvinyl adj alcohol or PVA or co-nylon or co-polyamide or polyactic adj acid) with (fiber or filament or strand or wire))) same (wound or wrapped or helical or helically or spiral or spirally)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 09:48

-	19392	((metal or metallic or steel) with (fiber or filament or strand or wire)) with (wound or wrapped or helical or helically or spiral or spirally)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 10:03
-	3944	((((metal or metallic or steel) with (fiber or filament or strand or wire)) with (wound or wrapped or helical or helically or spiral or spirally)) same core	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 10:05
-	3	2342098.URPN.	USPAT	2003/01/10 10:35
-	38	((((metal or metallic or steel) with (fiber or filament or strand or wire)) with (wound or wrapped or helical or helically or spiral or spirally)) same (composite adj yarn)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 11:36

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L1: Entry 1 of 1

File: JPAB

Mar 18, 1987

PUB-NO: JP362061747A

DOCUMENT-IDENTIFIER: JP 62061747 A

TITLE: MANUFACTURE OF SPIRAL ELECTRIC WIRE

PUBN-DATE: March 18, 1987

## INVENTOR-INFORMATION:

NAME

COUNTRY

SAKAI, TAKASHI

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

MITSUBISHI RAYON CO LTD

APPL-NO: JP60199079

APPL-DATE: September 9, 1985

INT-CL (IPC): B21F 3/04

## ABSTRACT:

PURPOSE: To form a spiral electric wire which is excellent in flexibility and elasticity, by winding a conductive wire around a core material composed of a continuous threadlike material under a coil-like condition.

CONSTITUTION: A continuous threadlike substance 1 composed of a cellulose acetate string, water-soluble fiber, or thermoplastic threadlike material is used as the core material of the spiral electric wire of this invention. The threadlike substance 1 fed by feed rollers 4 is passed through the hole of a hollow rotary spindle 12, to which the bobbin 2 of a conductive wire 13 is fitted, and the conductive wire 13 is wound around the threadlike substance 1 pulled out by means of pulling-out rolls 5 under a coil-like condition. A cheese 3 obtained by covering the threadlike substance 1 with the conductor wire 13 in this manner is coated with an insulating material after the threadlike substance 1 is melted away or removed by fusion.

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Full	Title	CIT.1	REV.1	CLS.1	REF.1	SEQ.1	ATT.1
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